# Genetics Speech

Name	Sci

**Project**: You will create a PowerPoint Presentation and give a 2-minute talk about your topic to the class.

**PowerPoint presentation:** Use font 40 or larger. Do not include more than 5 words on a slide. Show pictures and explain! Don't read. Use additional slides to make additional points.

- 1. **Effects/symptoms:** What does this disease do to the body?
- 2. **Pictures:** Find a picture of the symptoms. Include pictures on each slide.
- 3. **Punnetts and Pedigrees:** Include Punnett squares and pedigrees. (If applicable.)
- 4. Cause: What causes your disorder? (Gene mutation? Non-disjunction?)
- 5. **Transmission:** Autosomal, Sex-linked? Is your condition dominant or recessive? Or, does the condition result from non-disjunction? (Note that non-disjunction is different.)
- 6. **Treatment:** What treatments are available?
- 7. **Testing:** Can a genetics counselor predict this condition?
- 8. Fun Fact: Share one or more interesting fact about this condition.

#### **Grading out of 20 points**

- 1 point PowerPoint presentation
- 2 points Effects/symptoms...
- 2 points Pictures on every slide....
- 4 points **Punnett Squares and Pedigrees** (If applicable.)
- 1 point Cause: (Gene mutation? Non-disjunction?)
- 1 point Transmission: (Autosomal, Sex-linked, Dominant, Recessive?) Chromosomal = different
- 1 point **Treatment** (If applicable.)
- 1 point **Testing:** Can a genetics counselor predict this condition?
- 1 point **Fun Fact:** Share one or more interesting fact about this condition.
- 6 points **Presentation:** Talk to the audience. Refer to your pictures and explain. Don't read.

Have good eye contact. Speak audibly. Don't say "Um". Don't gesticulate.

#### **Bonus Point for citing your sources!**

### **Research Topics!**

#### Genetic Diseases/Conditions/Syndromes

- 1. Albinism
- 2. Achondroplasia (Dwarfism)
- 3. Baldness (Male-Pattern)
- 4. Bloom Syndrome
- 5. Blue People (Methemoglobinemia)
- 6. Color Blindness
- 7. Cry of the Cat (Cri-du-chat)
- 8. Cystic Fibrosis
- 9. Down Syndrome (Trisomy 21)
- 10. Hemophilia
- 11. Huntington's Disease (Huntington's Chorea)
- 12. Klinefelter's Syndrome
- 13. Lipodystrophy
- 14. Marfan Syndrome
- 15. Nail-Patella Syndrome
- 16. Niemann-Pick Disease

- 17. Progeria
- 18. Sickle Cell Anemia
- 19. Polydactyly
- 20. Syndactyly
- 21. Turner Syndrome
- 22. Tay-Sachs
- 23. Williams Syndrome
- 24. Rett Syndrome

#### Potentially Disturbing:

- 25. Edward Syndrome (Trisomy 18)
- 26. Lesch-Nyhan Syndrome
- 27. Jackson-Weiss Syndrome
- 28. Patau Syndrome (Trisomy 13)
- 29. Roberts Syndrome
- 30. Von Hippel-Lindau Syndrome

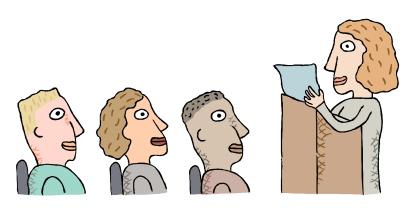


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## **Grading Rubric:**

Name _	, Topic:
	<b>oint presentation:</b> Use font 40 or larger. Do not include more than 5 words on a slide. ctures and explain! Don't read. Use additional slides to make additional points.
1	point - PowerPoint presentation
2	points - Effects/symptoms
2	points – Pictures on every slide
4	points - Punnett Squares and Pedigrees (If applicable.)
1	point - Cause: (Gene mutation? Non-disjunction?)
1	point - Transmission: (Autosomal, Sex-linked, Dominant, Recessive, Chromosomal?):
1	point - Treatment (If applicable.)
1	point – <b>Testing:</b> Can a genetics counselor predict this condition?
1	point – Fun Fact: Share one or more interesting fact about this condition.
6	points - <b>Presentation:</b> Talk to the audience. Refer to your pictures and explain. Don't
read. Ha	ve good eye contact. Speak audibly. Don't say "Um". Don't gesticulate.

### **Bonus Point for citing your sources!**



Your speech will be due:

You must finish your project on your own time. Find a computer at X-block, A+A and/or after school.